A2500-2

Paper, Paperboard & Wood Pulp

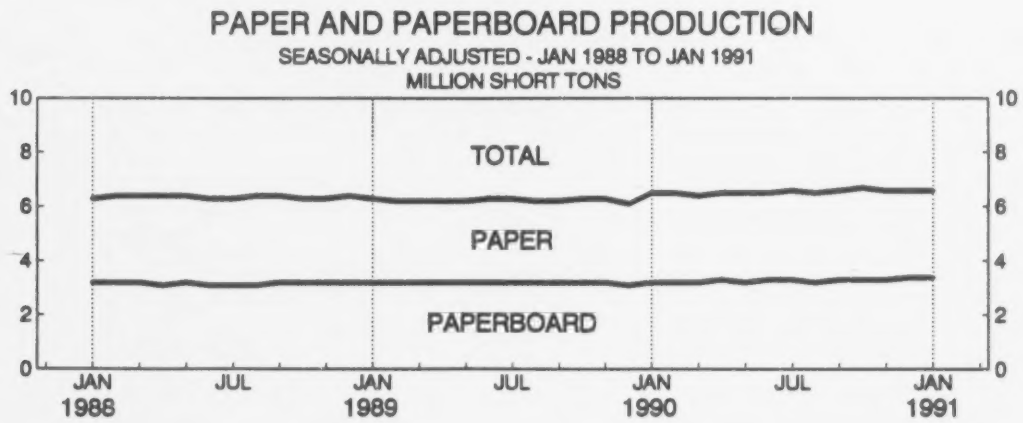
MONTHLY STATISTICAL SUMMARY - Vol.69 No.2 FEBRUARY 1991

PAPER AND PAPERBOARD: JANUARY 1991
SHIPMENTS DECLINE

Production of paper and paperboard moved 1.8% above year-ago levels in January 1991, but shipments declined as some of this production moved into inventory.

Most of the reported paper data refer to shipments; total paper output in January 1991 was 0.9% below its January 1990 total. Paperboard production gained 4.5% from January 1990 to January 1991. After the increase in inventories of containerboard at mills and corrugated box plants is taken into account, the effective shipments total is below its corresponding 1990 figure.

The table below pictures the seasonally-adjusted trends of paper, paperboard and total paper and paperboard production for the period January 1988 through January 1991.



Paper: The year-to-year decline in paper output in January 1991 was largely concentrated in the printing-writing grades. Total shipments of these papers were down 3.2%. Shipments of groundwood papers fell 7.7%, coated papers, 3.0% and uncoated free sheet papers, 1.9%. New orders for coated papers and uncoated free sheet papers in January 1991 were less than shipments, and the backlog of unfilled orders declined to

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Some of the major printing-writing paper markets are feeling the impact of the current recession. For most types of magazines, for example, advertising pages were well below year-ago levels in January 1991. In fact, print advertising generally, which increased through the first half of 1990, has since been in a declining trend. Sales by stationery wholesalers have been decreasing; their average inventory/sales ratio moved up from 1.0 months of supply in mid-1990 to 1.2 months by the year-end. The inventory-sales ratio at printing-paper wholesalers, at 0.8 months of supply, is about where it was one year ago.

On a more general level, net new business formation was in a "free-fall" trend throughout 1990. Firms going out of business represent lost paper markets, while the reduction in new business formation decreases paper's growth potential.

The recent increase in postal rates is affecting direct mail advertising. The previous increase, in April 1988, triggered a decline in second and third class postal revenue that lasted until the end of 1989, a time when the economy was still expanding. Mailings moved up throughout most of 1990, but now appear to be flattening. Newspaper inserts increased during the first three quarters of 1990, but turned down in the fourth quarter.

Among the other papers, newsprint production continues to show strength. The January 1991 total of 580,000 tons represented a new high, 4.7% above its year-ago level. The gain can be traced to the effects of the new machines and the strength of newsprint demand in the southern and western regions where these machines are sited.

Production of tissue papers, which is generally less affected by the business cycle than are the other paper grades, rose 2.5% over its January 1990 level in the first month of this year. Specialty packaging papers and special industrial papers also increased, but kraft paper shipments continued to decline.

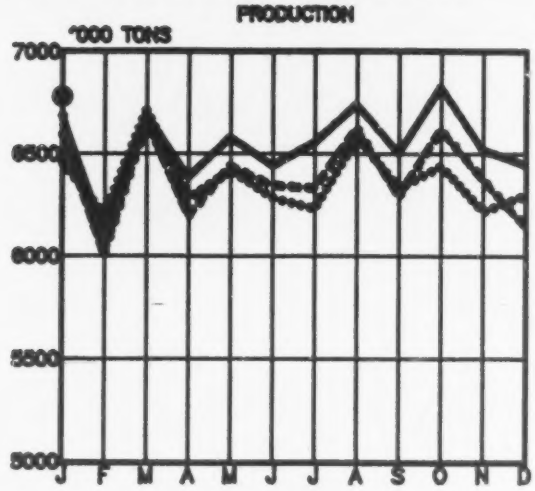
Paperboard: Paperboard production was 4.5% above its January 1990 total in January 1991, reflecting a 6% rise in containerboard production combined with a 1.1% increase in boxboard. Production of paperboard for export was up 3.7%, accounting for 8% of the total gain in production. The major source of the January 1990-1991 increase was the 284,000 tons added to mill and corrugated boxplant inventories. Production of containerboard for domestic use at fibre box plants advanced 6.4%; without the inventory gain, the production total would have been 8% below that of January 1990. Shipments of fibre boxes in January 1991 were 1.4% below their January 1990 total.

Total boxboard production advanced 1% in this period, reflecting a 6% increase in boxboard for packaging for domestic use and a 3% gain in boxboard production for export -- mainly bleached kraft

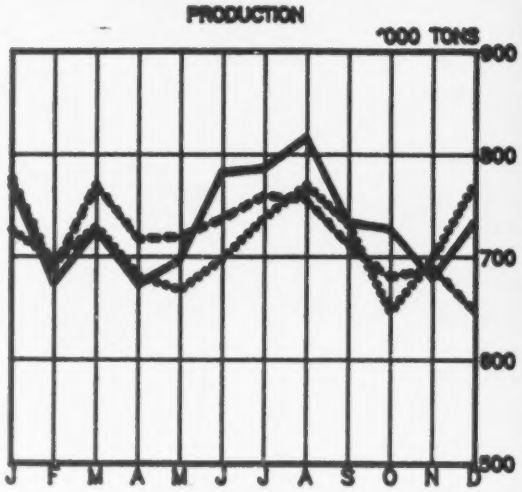
PAPER AND PAPERBOARD STATISTICS PRODUCTION, SHIPMENTS AND ORDERS (Thousands of Tons)	YEAR 1989	YEAR 1990	OCT 1990	NOV 1990	DEC (R) 1990	JAN (P) 1991	Annual Rate Y-T-D 1991	% Change From Same Period Last Year
PAPER								
Newsprint – Production	6,088	6,615	563	564	576	580	6,954	4.7
– Shipments	6,079	6,628	557	564	576	580	6,960	5.8
Printing & Writing: Total Shipments	21,626	22,381	2,003	1,865	1,763	1,883	22,598	-3.2
Groundwood Paper – Shipments	1,743	1,768	168	151	147	144	1,724	-7.7
– New Orders	1,741	1,834	183	136	161	170	2,039	6.5
– Unfilled Orders	193	168	222	213	215	236	236	40.6
Coated Groundwood – Shipments	4,059	4,214	387	369	327	348	4,178	-3.3
Coated Free Sheet – Shipments	3,157	3,307	302	273	237	281	3,374	-2.7
Total Coated Papers – Shipments	7,215	7,521	689	642	564	629	7,551	-3.0
– New Orders	7,171	7,423	671	589	531	590	7,082	-3.5
– Unfilled Orders	706	646	693	643	591	572	572	-11.5
Uncid Free Sheet – Shipments	11,081	11,510	1,009	942	930	981	11,767	-1.9
– New Orders	11,097	11,499	996	888	862	911	10,931	-2.8
– Unfilled Orders	748	653	818	778	685	634	634	-2.9
Thin Papers – Shipments	262	234	20	19	14	20	236	-19.2
Cotton Fiber Paper – Shipments	161	161	14	13	11	13	154	-5.7
Bleached Bristols – Shipments	1,164	1,188	102	98	96	97	1,167	-6.0
Tissue Paper – Production	5,636	5,802	507	477	484	485	5,825	2.5
Total Packaging & Other Paper	4,916	4,613	411	387	357	394	4,729	-1.4
Unbl. Kraft Paper – Shipments	2,661	2,377	208	196	173	202	2,424	-6.1
Bl. Kraft Paper – Shipments	488	484	44	41	37	35	422	-18.1
Specialty Pkg. Paper – Production	520	563	51	52	51	50	600	9.0
Special Industrial Paper – Shipments	1,248	1,190	108	99	97	107	1,283	11.6
TOTAL PAPER PRODUCTION – UNADJUSTED	38,266	39,411	3,484	3,294	3,181	3,342	40,107	-0.9
TOTAL PAPER PRODUCTION – SEAS ADJ			3,360	3,308	3,195	3,257	39,079	-0.9
PAPERBOARD – PRODUCTION								
Containerboard	26,428	27,265	2,342	2,281	2,376	2,422	29,058	6.0
Cont'bd For Dom Use for Fibre Boxes	23,752	24,320	2,125	2,079	2,066	2,154	25,847	6.4
Total Linerboard	16,399	16,870	1,499	1,453	1,426	1,504	18,048	8.4
Unbleached Kraft	15,833	16,404	1,455	1,405	1,388	1,454	17,448	7.7
Solid Bleached	178	132	11	11	10	12	148	-2.4
Recycled	388	334	32	38	29	38	450	49.4
Corrugating Medium	7,339	7,443	626	625	640	650	7,796	2.0
Semichemical	5,554	5,566	469	469	480	487	5,839	1.9
Recycled	1,785	1,877	157	156	160	163	1,957	2.4
Container Chip and Filler	14	7	1	1	0	0	5	-55.6
Other Containerboard for Dom Use	307	282	25	17	24	23	271	-3.4
Containerboard for Export	2,369	2,662	191	185	285	245	2,940	3.9
Boxboard	12,029	11,891	1,002	954	945	1,041	12,486	1.1
Boxboard for Packaging for Dom Use	7,076	6,975	581	571	575	640	7,679	6.2
Folding Boxboard	5,370	5,239	449	440	446	481	5,770	5.6
Solid Bleached	1,980	1,827	143	139	— 159	167	2,003	2.5
Unbleached Kraft	987	970	84	89	94	92	1,106	18.2
Recycled	2,403	2,442	221	213	193	222	2,660	3.5
Set-up Boxboard for Dom Use	288	297	23	23	19	23	281	-13.0
Milk Carton & Food Service Dom Use	1,419	1,439	109	108	111	136	1,628	12.7
Other Boxboard for Domestic Use	4,089	3,971	345	313	295	317	3,808	-8.1
Boxboard for Export	863	946	77	69	85	83	1,000	3.0
Paperboard Production by Furnish	38,456	39,156	3,344	3,234	3,321	3,462	41,533	4.5
Unbleached Kraft	19,490	20,335	1,754	1,698	1,795	1,823	21,869	8.0
Semichemical	5,691	5,710	480	477	494	497	5,959	1.5
Solid Bleached Kraft	4,521	4,380	346	336	369	393	4,710	2.3
Recycled	8,754	8,731	764	723	663	750	8,995	-0.4
Paperboard Production for Export	3,232	3,608	268	254	370	328	3,940	3.7
Unbleached Kraft	2,363	2,678	189	188	289	254	3,052	7.7
Semichemical	138	143	12	8	14	10	119	-15.8
Bleached Kraft	693	734	63	56	64	58	693	-10.0
Recycled	38	52	4	3	3	6	76	42.1
TOTAL PAPERBOARD PRODUCTION – UNADJ	38,456	39,156	3,344	3,234	3,321	3,462	41,544	4.5
TOTAL PAPERBOARD PROD – SEAS ADJ			3,304	3,324	3,395	3,350	40,201	4.5
PAPER AND PAPERBOARD – UNADJ	76,722	78,568	6,828	6,528	6,502	6,804	81,651	1.8
PAPER AND PAPERBOARD – SEAS ADJ			6,664	6,632	6,589	6,607	79,281	1.8

R – Revised P – Preliminary Seas. Adj. – Seasonally Adjusted Unadj – Not Seasonally Adjusted

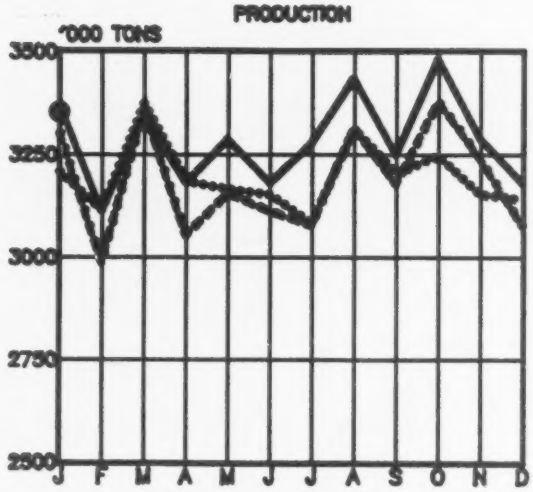
TOTAL PAPER AND PAPERBOARD
PRODUCTION



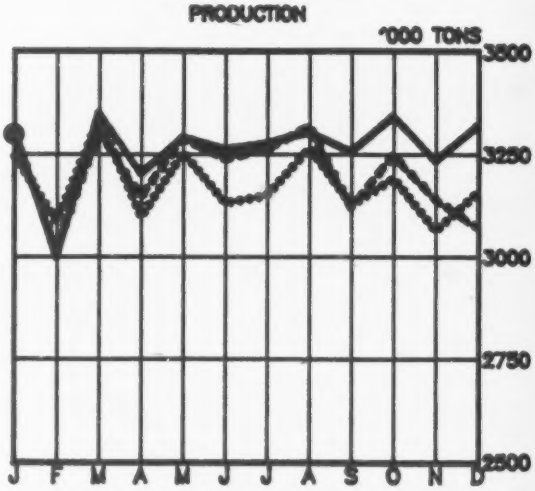
MARKET WOOD PULP
PRODUCTION



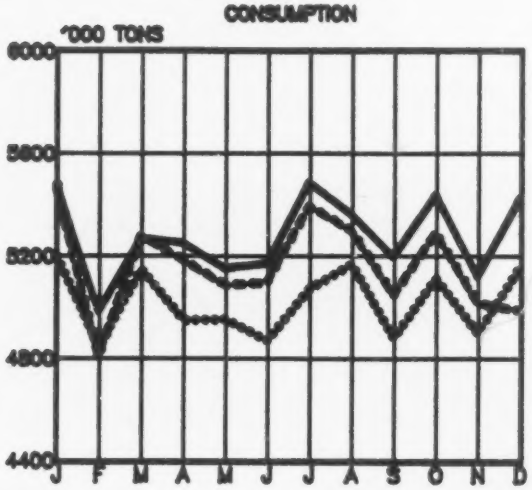
TOTAL PAPER
PRODUCTION



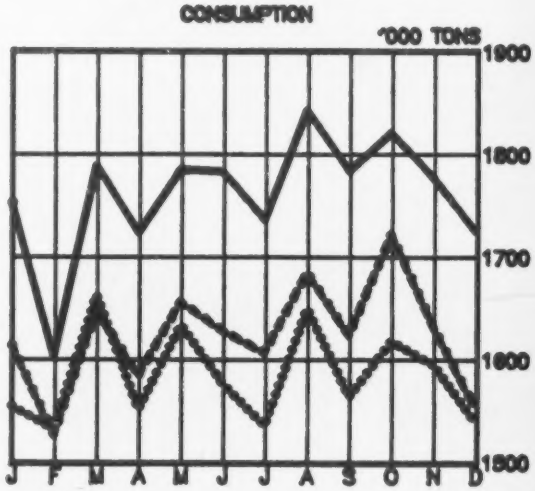
TOTAL PAPERBOARD
PRODUCTION



TOTAL WOOD PULP
CONSUMPTION



TOTAL WASTE PAPER
CONSUMPTION



1988 ••••••• 1989 - - - - 1990 ——— 1991 ●

WOOD PULP STATISTICS (Thousands of Tons)			YEAR 1988	YEAR 1989	SEPT 1990	OCT 1990	NOV (R) 1990	DEC (P) 1990	Annual Rate Y-T-D 1990	% Change From Same Period Last Year
TOTAL WOOD PULP										
Total Wood Pulp	Production		61,161	61,998	5,200	5,442	5,125	5,428	63,275	2.1
	Imports	A	5,038	5,005	367	445	390	329	4,893	-2.2
	Exports		5,528	6,231	526	491	438	477	5,905	-5.2
	New Supply		60,671	60,772	5,042	5,396	5,077	5,280	62,363	2.6
Dissolving Pulp	Production		1,367	1,425	126	91	71	123	1,293	-9.3
	Imports		248	284	18	21	20	23	222	-21.9
	Exports		865	836	77	56	57	68	782	-6.5
	New Supply		751	873	66	56	34	77	733	-16.0
Paper Grades	Production		49,493	50,181	4,190	4,410	4,165	4,392	51,310	2.2
Chemical Pulp	Imports	A	4,419	4,370	318	392	348	293	4,326	-1.0
	Exports		4,612	5,325	446	433	378	404	5,080	-4.6
	New Supply		49,300	49,226	4,062	4,369	4,135	4,280	50,556	2.7
Groundwood and	Production		5,943	6,029	536	578	543	554	6,452	7.0
Thermo-Mech	Imports	A	371	351	31	32	22	14	345	-1.5
	Exports		51	70	3	2	3	4	44	-37.5
	New Supply		6,263	6,309	564	609	562	563	6,754	7.1
Semi-Chemical	Production		4,358	4,363	349	362	347	359	4,219	-3.3
	Imports									
	Exports									
	New Supply		4,358	4,363	349	362	347	359	4,219	-3.3
MARKET WOOD PULP										
Total Market	Production		8,565	8,664	734	728	680	735	8,823	1.8
Wood Pulp	Imports		3,557	3,539	250	293	257	226	3,215	-9.2
	Exports		5,071	5,309	527	447	416	530	5,576	5.0
	New Supply		7,051	6,893	457	574	522	431	6,461	-6.3
Dissolving Pulp	Production		1,365	1,422	125	91	74	123	1,298	-8.7
	Imports		206	210	18	16	17	16	170	-19.2
	Exports		798	821	80	55	52	85	789	-3.9
	New Supply		774	810	63	53	38	55	678	-16.3
Paper Grades	Production		7,200	7,242	607	635	607	612	7,518	3.8
Chemical Pulp	Imports		3,126	3,072	212	259	225	197	2,813	-8.4
	Exports		4,273	4,489	447	393	364	446	4,788	6.7
	New Supply		6,052	5,825	372	501	468	363	5,543	-4.9
Groundwood Pulp	Production		0	(0)	2	2	(0)	0	8	N.M.
and All Other	Imports	RS	231	258	20	18	16	13	232	-9.8
	Exports		0	(0)	0	0	0	0	0	0.0
	New Supply		231	258	21	20	15	13	240	-6.7

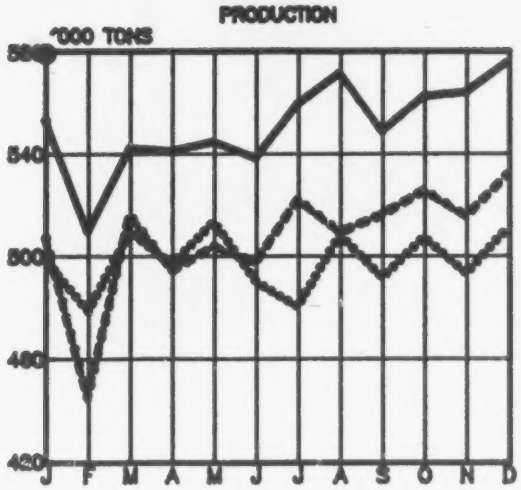
SOURCES: Total Wood Pulp Production & Market Wood Pulp Production, Imports & Exports – Pulp Division, Pulp, Materials and Technology Group, API. Total Wood Pulp Imports & Exports – Department of Commerce.
NOTE: A – API shifted import data from January 1989 to December 1988 to compensate for misallocation of reported data. RS – Revised Series.

FIBROUS RAW MATERIALS (Thousands of tons)	YEAR 1988	YEAR 1989	SEPT 1990	OCT 1990	NOV (R) 1990	DEC (P) 1990	Annual Rate 1990	% Change From Same Period Last Year
CONSUMPTION AT PAPER & PAPERBOARD MILLS								
Total	79,315	80,217	6,820	7,213	6,828	6,896	82,873	3.3
Total Wood Pulp	60,294	60,727	5,034	5,391	5,050	5,170	61,834	1.8
Waste Paper	19,021	19,490	1,785	1,822	1,778	1,726	21,039	7.9
INVENTORIES								
Chemical Paper Grade Market Pulp								
Producers' Own-Use Inventories	172	193	228	210	201	229	229	18.9
Producers' Market Inventories	261	342	461	472	498	467	467	36.6
Consumers' Purchased Inventories #	622	519	423	422	358	392	392	-24.4
Waste Paper at Paper & Bd. Mills	1,044	1,082	976	1,026	997	928	928	-14.3
Days of Supply at Pulp Mills of								
Chemical Paper Grade Mkt Pulp	14	19	22	22	24	23	23	21.1

SOURCES: Wood Pulp Data, Pulp Division, Pulp, Materials and Technology Group, API. Waste Paper Data, Paper Recycling Committee, API.
Includes all grades of wood pulp N.M. – Not Meaningful
P – Preliminary; R – Revised; (0) – Indicates zero to five-hundred short tons

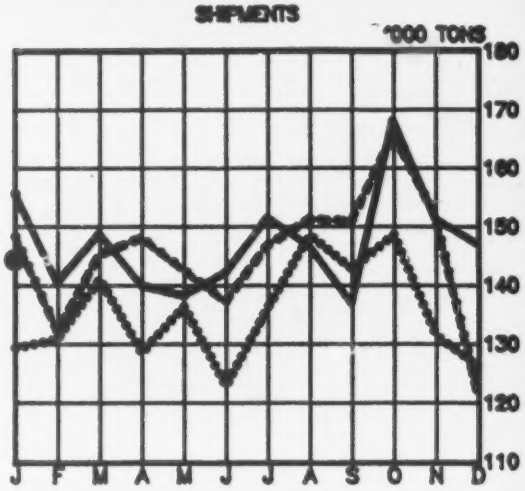
NEWSPRINT

PRODUCTION



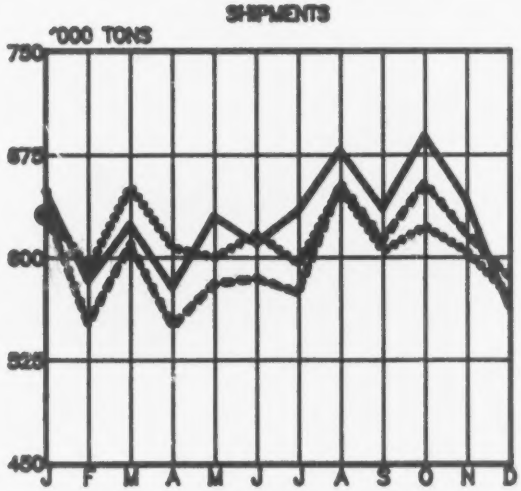
GROUNDWOOD PAPER, UNCOATED

SHIPMENTS



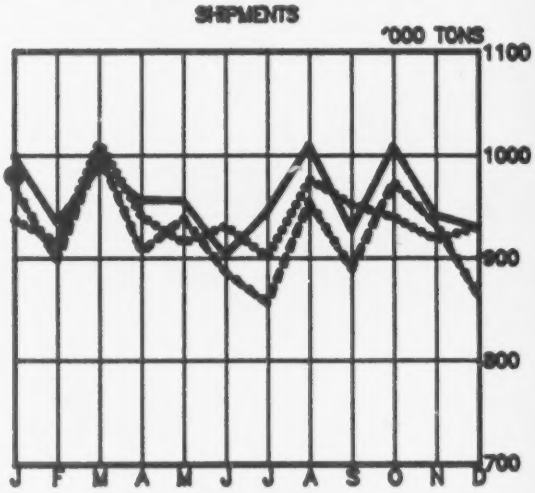
COATED PAPER

SHIPMENTS



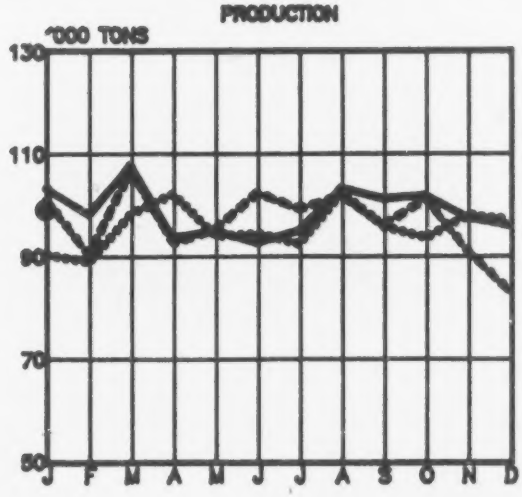
UNCOATED FREE SHEET PAPERS

SHIPMENTS



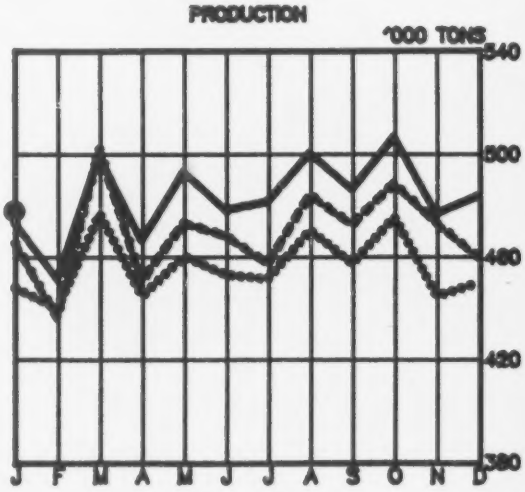
BLEACHED BRISTOLS

PRODUCTION



TISSUE PAPER

PRODUCTION



1988 ••••••• 1989 ------1990 ——— 1991 ●

FIBROUS RAW MATERIALS (Thousands of Standard (128 Cu. ft.) Cord	YEAR		SEPT	OCTOBER	NOVEMBER	DECEMBER	ANNUAL RATE Y-T-D	% CHANGE FROM SAME PD
	1988	1989	1990	1990	1990	1990	1990	LAST YEAR
PULPWOOD								
Total U.S. – Total Receipts	96,537	99,279	8,271	8,712	8,160	7,920	99,304	0.0
– Total Consumpt	96,497	98,414	8,243	8,517	8,120	8,012	99,109	0.7
– Residues *	33,186	34,539	3,037	3,163	2,953	2,784	35,727	3.4
– Inventories	4,888	5,462	5,651	5,751	6,375	5,961	5,961	9.1
So. Atlantic – Total Receipts	31,562	31,962	2,838	2,726	2,616	2,598	32,536	1.7
– Total Consumpt	31,567	32,239	2,828	2,676	2,579	2,667	32,412	0.5
– Residues *	9,897	9,981	1,032	923	903	911	11,181	12.2
– Inventories	1,200	936	1,219	1,216	1,324	1,334	1,334	42.5
Northeast – Total Receipts	7,187	7,242	564	662	599	587	7,264	0.3
– Total Consumpt	7,216	7,072	565	595	534	558	7,080	0.1
– Residues *	1,664	1,575	121	135	123	124	1,505	-4.4
– Inventories	572	522	401	439	458	449	449	-14.0
South Central – Total Receipts	33,751	35,840	3,056	3,386	3,149	3,069	37,248	3.9
– Total Consumpt	33,646	35,791	3,095	3,242	3,088	3,027	36,784	2.8
– Residues *	9,890	10,539	938	1,020	953	920	11,518	9.3
– Inventories	1,160	1,336	1,307	1,474	2,072	1,879	1,879	40.6
North Central – Total Receipts	6,865	7,020	643	614	583	598	7,074	0.8
– Total Consumpt	6,929	6,963	515	633	604	605	7,129	2.4
– Residues *	1,334	1,422	100	105	121	92	1,308	-8.0
– Inventories	839	938	1,012	1,011	1,004	1,014	1,014	8.1
West – Total Receipts	16,162	17,195	1,241	1,324	1,233	1,068	15,184	-11.7
– Total Consumpt	16,139	16,349	1,240	1,371	1,315	1,155	15,704	-3.9
– Residues *	10,401	11,042	846	980	853	717	10,217	-7.5
– Inventories	1,117	1,730	1,712	1,611	1,517	1,285	1,285	-25.7

* – Consumption of Residues in corde equivalent

SOURCE: American Pulpwood Association

UNITED STATES TRADE WITH CANADA		IMPORTS FROM CANADA * YEAR 1989		NOVEMBER 1990		DECEMBER 1990		ANNUAL RATE Y-T-D 1990	% CHANGE FROM SAME PD LAST YEAR
		Tons	($000)	Tons	($000)	Tons	($000)	Tons	
Pulpwood, Roundwood (in cubic meters)		211,061	4,582	0	0	0	0	0	-100.0
Pulpwood chips		792,188	27,339	52,573	1,770	70,169	2,244	709,197	-10.5
Wood Pulp, Total	A	4,353,343	2,599,247	337,923	184,391	287,316	156,848	4,322,418	-0.7
Waste Fibrous Materials, Total		184,217	31,659	10,347	2,881	7,430	2,007	130,452	-29.6
Paper, Board & Products, Total	A	10,986,831	6,104,181	925,648	545,810	849,616	477,377	11,191,700	1.9
Paper, Paperboard, Wet Machine Bd. & Constr. Paper & Bd.	A	10,807,659	5,782,419	913,899	514,221	840,092	453,673	11,047,032	2.2
Paper, Paperboard & Products	A	10,830,545	6,065,485	915,525	543,413	844,875	476,132	11,066,239	2.2
Paper & Paperboard, Only	A	10,651,373	5,743,703	903,877	511,724	835,350	452,428	10,921,571	2.5
Paper, Total	A	10,234,258	5,579,018	857,527	492,111	787,193	433,162	10,385,505	1.5
Newsprint	A	8,330,874	4,278,705	657,728	347,773	613,269	312,032	8,118,161	-2.6
Printing, Writing & Rel. Pap.	A	1,579,698	1,069,263	172,601	121,941	151,764	103,495	1,914,083	21.2
Pack. & Ind. Conv. Paper		217,159	119,140	16,484	9,558	11,742	6,801	211,903	-2.4
Special Industrial Paper		49,045	60,344	4,430	6,108	4,064	5,223	57,441	17.1
Tissue Paper		57,481	51,567	7,303	6,732	6,354	5,630	83,917	46.0
Paperboard, Total		417,117	184,685	48,360	19,612	48,158	19,248	536,067	28.5
Convtd Paper&Paperbd Products		179,172	321,762	11,648	31,689	9,524	23,704	144,666	-19.3
Wet Machine Board		293	245	106	91	3	2	884	201.4
Construction Paper & Board		155,993	38,472	9,916	2,407	4,738	1,243	124,576	-20.1

NOTE: A – API shifted import data from January 1989 to December 1988 to compensate for misallocation of reported data.

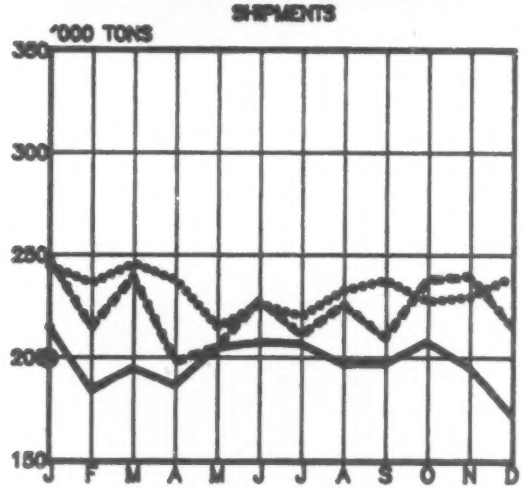
NOTE: 1990 EXPORT DATA NOT FULLY COMPARABLE WITH 1989'S.

	EXPORTS TO CANADA *							
Pulpwood, Roundwood (in cubic meters)	62,892	1,120	178,809	4,362	84,914	2,251	1,038,727	1551.6
Pulpwood chips	28,218	1,241	15,353	657	14,748	638	193,841	586.9
Wood Pulp, Total	352,896	141,272	22,383	11,172	18,170	9,215	328,456	-6.9
Cotton Pulp & Other Pulp	6,215	4,249	453	396	346	370	4,373	-29.6
Waste Paper	284,379	38,558	54,179	9,445	39,892	7,309	653,204	129.7
Paper, Board & Products, Total	1,083,228	763,613	107,844	117,842	73,712	83,705	1,194,633	10.3
Paper, Paperboard, Wet Machine Bd. & Constr. Paper & Bd.	754,575	497,470	81,048	75,300	54,310	52,160	883,102	18.4
Paper, Paperboard & Products	1,062,580	755,810	107,495	117,510	73,671	83,656	1,192,443	12.2
Paper & Paperboard, Only	733,907	489,868	80,897	75,168	54,268	52,111	880,912	21.4
Paper, Total	371,206	340,312	48,303	54,709	33,472	39,767	821,588	40.5
Newsprint	8,318	5,891	2,260	1,228	1,272	734	20,813	150.3
Printing, Writing & Rel. Pap.	228,021	222,055	32,172	37,036	22,535	28,599	372,852	83.5
Pack. & Ind. Conv. Paper	85,390	29,624	5,550	3,972	3,727	2,781	52,367	-19.9
Special Industrial Paper	82,645	72,955	8,275	10,405	3,839	5,678	80,301	-5.3
Tissue Paper	6,834	9,787	2,047	2,068	2,099	1,975	16,253	137.8
Paperboard, Total	362,701	149,358	32,594	20,460	20,798	12,345	369,328	1.8
Convtd Paper&Paperbd Products	328,853	266,143	26,598	42,341	19,403	31,544	301,531	-8.3
Wet Machine Board	1,628	680	0	0	0	0	0	-100.0
Construction Paper & Board	19,040	7,143	149	132	42	49	2,190	-88.5

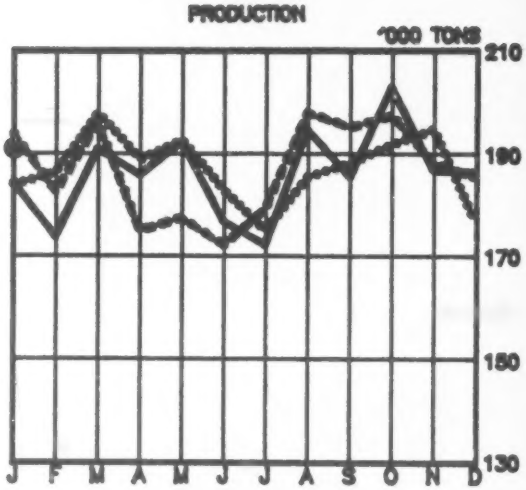
SOURCE: Bureau of Census, Department of Commerce .

E – Estimate of tonnage based on square foot data

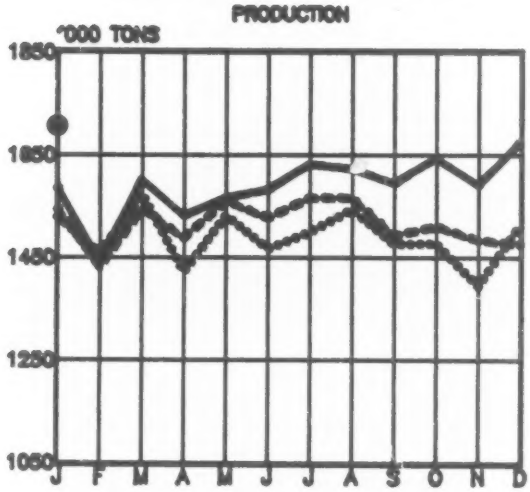
UNBLEACHED KRAFT PACKAGING AND INDUSTRIAL CONVERTING PAPER SHIPMENTS



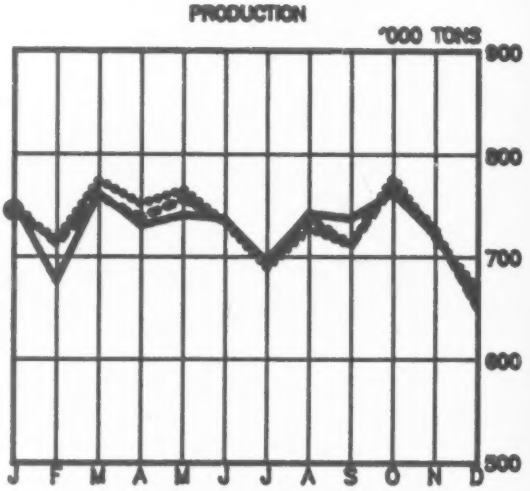
OTHER PAPER PRODUCTION



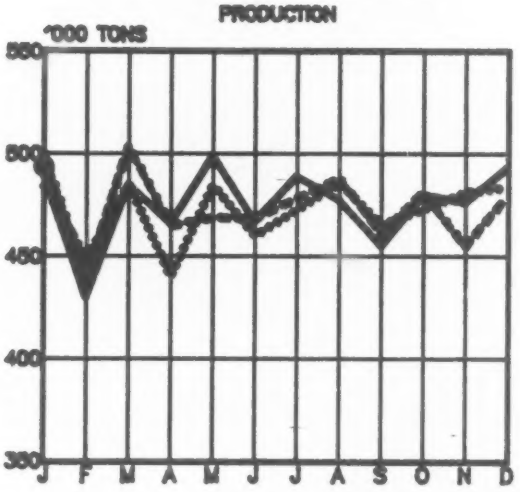
UNBLEACHED KRAFT LINERBOARD PRODUCTION



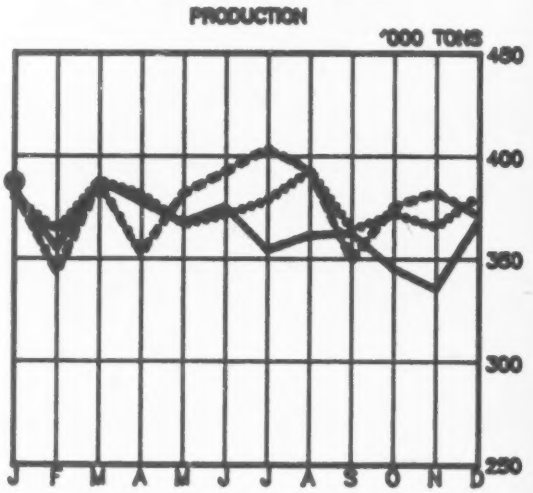
RECYCLED PAPERBOARD PRODUCTION



SEMICHEMICAL PAPERBOARD PRODUCTION



SOLID BLEACHED PAPERBOARD PRODUCTION



1988 ••••••• 1989 -•-•-•- 1990 ——— 1991 ●

PULP, PAPER AND PAPERBOARD IMPORTS		YEAR 1989		NOVEMBER 1990		DECEMBER 1990		Annual Rate YTD 1990	% Change from same Period
		Tons	$000	Tons	$000	Tons	$000	Tons (1)	Last Year
Pulpwood Roundwood (cubic meters)		211,061	4,582	0	0	0	0	0	-100.0
Pulpwood Chips		806,361	27,759	82,996	1,775	70,171	2,247	710,415	-11.8
Total All Imports	A	18,258,980	11,352,263	1,481,669	930,459	1,330,788	812,669	18,177,409	-0.6
Wood Pulp Total	A	5,006,100	2,980,842	369,695	210,448	329,117	178,448	4,883,356	-2.2
Waste Paper		172,575	33,197	9,721	2,337	6,745	1,493	122,539	-29.0
Other Fibrous Materials		11,254	8,518	1,082	664	1,257	846	14,037	24.7
Paper Board & Products Total	A	13,069,931	8,329,906	1,081,180	717,010	993,699	633,873	13,147,479	0.4
Paper Paperboard Wet Machine Bd. & Construction Paper & Board	A	12,537,474	7,231,648	1,045,867	631,683	983,531	584,519	12,728,760	1.5
Paper Ppbd & Prds ex Cnst&WMB	A	12,910,205	8,279,503	1,069,990	713,661	987,748	631,802	13,006,238	0.7
Paper & Paperboard Only	A	12,347,748	7,181,244	1,034,467	628,334	957,908	582,447	12,887,519	1.9
Paper Total	A	11,814,263	6,900,796	981,251	602,609	902,996	537,692	11,981,306	1.2
Newsprint	A	8,563,401	4,379,613	685,827	351,570	628,249	321,068	8,299,557	-3.0
Printing & Writing	A	2,732,978	1,996,141	269,494	200,452	236,189	173,329	3,104,983	13.6
Uncoated Groundwood		1,304,114	817,785	114,344	75,034	97,410	61,085	1,337,581	2.6
Coated Print.& Impreg. Pap.	A	774,022	632,484	71,950	59,194	65,188	53,302	936,048	20.9
Uncoated Free Sheet	A	583,077	462,404	76,172	57,948	67,289	51,263	752,448	29.0
Thin (except Cigarette)		12,711	15,200	1,000	1,373	957	1,518	11,365	-10.6
Bristols		59,052	68,267	8,019	8,903	5,366	6,182	67,424	14.2
Total Pkg & Other Paper		407,087	414,353	33,490	39,356	25,624	31,777	425,897	4.6
Unbleached Kraft Paper		239,303	116,011	17,988	9,097	12,196	6,224	235,352	-1.7
Other Pkg. & Indust. Paper		167,785	298,342	15,502	30,258	13,428	25,552	190,545	13.4
Tissue		120,797	110,691	12,440	11,233	12,933	11,519	131,189	8.6
Paperboard, Total		533,486	280,448	53,216	25,725	54,612	24,755	626,213	17.4
Test or Containerboard		85,048	34,401	7,783	3,263	8,623	2,803	113,629	33.6
Semi-Chemical Corrugating		118,178	38,462	7,497	1,998	11,602	3,216	111,935	-5.3
Other Paperboard		330,262	209,584	37,936	20,477	36,297	18,736	400,649	21.3
Convtd Paper&Paperbd Products		562,457	1,098,259	35,523	85,327	30,138	80,354	418,719	-25.6
Paper Products, Total		470,471	924,729	28,654	67,436	21,141	56,023	313,106	-33.4
Paperboard Products, Total		91,986	173,529	6,869	17,891	8,998	13,331	105,613	14.8
Wet machine Board		606	580	143	123	15	23	1,132	86.8
Construction Paper & Board E		189,119	49,824	11,057	3,225	5,908	2,048	140,110	-25.9
Notes									
Other: No Weight Avail. ($000)			136,624		13,040		10,852	136,809	0.1
Total Imports Incl. Other($000)			11,488,886		943,499		823,312	11,429,064	-0.5

NOTE: A – API shifted import data from January 1989 to December 1989 to compensate for misallocation of reported data.

NOTE: 1990 EXPORT DATA NOT FULLY COMPARABLE WITH 1989'S.

PULP, PAPER AND PAPERBOARD EXPORTS	YEAR 1989		NOVEMBER 1990		DECEMBER 1990		Annual Rate YTD 1990	% Change from same Period
	Tons	$000	Tons	$000	Tons	$000	Tons (1)	Last Year
Pulpwood, Roundwood (cubic meters)	137,617	3,475	181,981	4,425	90,396	2,228	1,122,468	715.6
Pulpwood Chips	4,367,811	368,154	454,113	38,220	341,786	27,715	4,637,669	6.4
Total All Exports	18,833,605	8,803,945	1,566,278	715,413	1,568,638	695,995	19,342,229	3.8
Wood Pulp,Total	8,231,172	3,512,604	437,780	216,656	476,753	236,087	8,806,339	-6.2
Cotton Pulp and Other Pulp	122,045	100,310	10,387	7,797	9,863	7,806	136,832	11.1
Waste and Old Paper	5,980,620	729,787	573,081	84,310	577,782	98,431	6,804,870	8.8
Paper, Board & Products,Total	6,299,768	4,261,035	547,069	426,671	524,412	365,961	6,796,388	7.9
Paper,Paperboard,Wet Machine Bd. & Construction Paper & Board	5,299,733	2,982,686	464,717	288,575	439,985	291,879	5,748,820	8.3
Paper, Ppbd & Prod ex Cnst&WMB	6,263,401	4,246,277	546,216	426,177	523,323	364,866	6,786,518	8.4
Paper & Paperboard, Only	5,223,468	2,967,928	463,924	288,081	438,908	291,217	5,738,780	9.9
Paper, Total	1,485,752	1,233,527	135,724	132,128	113,464	109,718	1,519,052	3.8
Newsprint	624,798	357,381	52,054	30,143	40,417	23,906	535,983	-14.2
Printing & Writing	476,201	485,188	52,578	58,252	46,619	53,736	664,824	39.0
Uncoated Groundwood	88,066	84,799	5,714	5,245	6,182	5,319	75,289	-14.5
Clay Coated Paper	186,536	131,418	15,827	16,061	12,233	12,537	218,984	29.8
Uncoated Free Sheet	122,346	186,830	19,582	29,922	18,593	28,299	232,389	88.9
Other Printing & Writing	99,290	102,154	11,456	10,924	9,601	9,582	138,472	39.5
Total Pkg. & Other Paper	342,041	390,790	27,249	39,368	22,480	28,034	283,884	-17.1
Unbleached Kraft	125,818	60,318	10,338	5,842	10,151	5,744	112,825	-10.3
Other Pkg. & Indust. Paper	216,223	330,472	16,910	33,526	12,329	22,290	170,758	-21.0
Tissue	20,712	30,187	3,843	4,365	3,936	4,252	34,651	67.3
Paperboard, Total	3,757,704	1,734,402	318,201	153,953	325,452	181,501	4,219,866	12.3
Solid Wood Pulp	3,572,758	1,646,152	299,085	143,856	311,328	143,147	3,993,101	11.8
Total Linerboard	2,499,716	935,364	211,635	78,699	231,158	84,718	2,924,140	17.0
Bleached Kraft Linerboard	283,113	127,787	38,019	17,222	29,686	13,143	335,444	18.5
Unbleached Kraft Linerbd	2,216,603	807,578	173,616	61,477	201,483	71,575	2,588,697	16.8
Other Unbleached Kraft	246,575	113,315	19,156	11,454	23,366	14,648	253,945	3.0
Other Bleached Kraft	795,305	582,979	84,051	52,250	51,995	42,405	764,550	-3.9
Semi-Chemical Corrugating	31,162	14,494	4,244	1,453	4,820	1,478	50,466	61.9
Recycled Paperboard	184,947	88,250	19,119	10,097	14,124	8,353	225,996	22.5
Convtd Paper&Paperbd Products	1,040,036	1,278,349	92,292	140,066	84,417	123,662	1,047,766	0.7
Paper Products, Total	473,435	832,908	40,334	89,934	38,177	81,233	440,793	-6.9
Paperboard Products, Total	566,601	445,543	51,958	50,162	46,240	42,449	606,975	7.1
Wet Machine Board	2,899	1,258	11	18	0	0	467	-83.2
Construction Paper & Board E	33,366	13,801	782	476	1,099	982	9,364	-71.9
Notes								
Other: No Weight Avail. ($000)		23,965		4,778		3,393	49,994	111.1
Total Exports Incl. Other($000)		8,827,911		720,188		699,388	9,125,306	6.8

SOURCE: Bureau of Census, U.S. Department of Commerce. E – Incl. estim. of tonnage based on square foot data.

(1) Annual Rate Year-To-Date is in tons unless otherwise specified in item description.

PRODUCER PRICE INDEXES 1982 = 100	YEAR 1989	YEAR 1990	OCT 1990	NOV 1990	DEC 1990	JAN 1991	Annual Rate Y-T-D 1991	% Change from same Period Last Year
Pulp, Paper and Products except Building Grades	132.4	133.0	132.9	133.0	132.9	132.4	132.4	-0.7
Pulp Paper & Products, ex. Building Grades & ex. Waste Paper *	132.0	132.9	132.9	133.1	132.9	132.4	132.4	-0.5
Total Wood Pulp	157.4	152.2	147.3	145.7	144.7	133.5	133.5	-16.5
Total Paper	129.6	128.8	130.2	130.2	129.9	130.4	130.4	2.0
Writing Paper, exc. Newsprint	130.5	129.2	130.6	130.7	130.1	130.0	130.0	1.4
Newsprint	122.5	119.5	122.0	122.2	122.2	125.7	125.7	7.6
Total Paperboard	140.1	135.8	133.9	135.0	133.9	132.7	132.7	-4.7
Total Paper and Paperboard *	132.9	131.0	131.4	131.7	131.2	131.1	131.1	-0.2
Converted Products	131.7	135.2	135.7	135.8	135.9	136.0	136.0	1.2
Waste Paper	157.1	138.3	130.0	129.0	131.4	131.8	131.8	-13.1
All Commodities	112.2	116.3	120.8	120.1	118.6	118.9	118.9	3.5
Industrial Commodities	111.6	115.8	121.3	120.6	118.9	119.3	119.3	4.6

SOURCE: Producer Price Indexes: Bureau of Labor Statistics, U.S. Department of Labor * Computed by API

Paper and Allied Products Companies

Sales and Earnings

	Sales			Net Profit After Taxes			Net Profits/Sales	
	1990	1989	90/89	1990	1989	90/89	1990	1989
	(Thousand Dollars)		% Change	(Thousand Dollars)		% Change	%	%
			26	Paper and Allied Products Companies				
First Quarter	17,673,508	16,422,853	7.6	1,044,062	1,306,431	-20.1	5.91	7.95
Second Quarter	17,929,571	17,488,269	2.5	1,002,756	1,305,363	-23.2	5.59	7.46
Third Quarter	17,958,647	17,230,522	4.2	772,576	1,341,052	-42.4	4.30	7.78
Fourth Quarter	17,435,073	16,810,765	3.7	545,997	1,144,581	-52.3	3.13	6.81
Full Year	70,996,799	67,952,409	4.5	3,365,391	5,097,427	-34.0	4.74	7.50
			3	Forest Product Companies				
First Quarter	5,416,303	5,235,292	3.5	266,858	341,987	-22.0	4.93	6.53
Second Quarter	6,412,918	5,810,058	10.4	259,256	375,263	-30.9	4.04	6.46
Third Quarter	6,144,408	5,730,507	7.2	206,766	396,336	-47.8	3.37	6.92
Fourth Quarter	5,508,986	5,510,253	0.0	116,918	81,085 *	N.M.	2.12	N.M.
Full Year	23,482,615	22,286,110	5.4	849,798	1,194,671	N.M.	3.62	N.M.

* Includes net nonrecurring charge at one major company
N.M. – Not Meaningful

paperboard -- largely offset by an 8% decline in boxboard production for other uses, such as tube, can and drum stock, gypsum wallboard facing and panelboard.

Much of the boxboard increase occurred in folding boxboard, where production for domestic use surged 5.6% above its year-ago level. Solid bleached and recycled board rose moderately, but production of unbleached kraft folding boxboard for domestic use was 18% over its year-earlier rate, maintaining the gains realized in the last two months of 1990. Production of milk carton and food service boxboard for domestic use was also sharply above its January 1990 total in January 1991, but production of these grades for export declined.

EXPORTS, IMPORTS AND NEW SUPPLY

Preliminary data for January 1991 show mixed trends for exports, with production of paperboard for export above its fourth quarter 1990 level and wood pulp production for export below its recent trend, but up 40% from one year-ago.

Complete Department of Commerce data for 1990 reported total paper and paperboard exports at 5.7 million tons, 9.9% over their 1989 high. When the construction grades and converted products are included, the total rises to 6.8 million tons, up 7.9% from 1989. While the major tonnage gains occurred in the paperboard grades (see table on page 9), exports of printing-writing papers increased by 39%, from 478,000 tons in 1989 to 665,000 tons in 1990. Tissue paper exports also made a sizable percentage gain, going from 21,000 tons in 1989 to 35,000 tons in 1990.

Imports showed only modest increases. Census data indicate that newsprint imports declined 3%, to 8.3 million tons, holding the gain in total paper and paperboard to 1.9%. Converted products imports also declined, keeping total imports at the 13.1 million-ton level, for a gain of 0.4%.

With exports rising faster than imports, new supply (production plus imports less exports, a proxy for consumption) of paper and paperboard in 1990, at 86.5 million tons, was 1.7% above its 1989 total, compared to the 2.4% increase in production. With real GNP rising only 0.9%, the faster increase in new supply brought the new supply/real GNP ratio up slightly from its 1989 level but still on the low side of its long term trend.

FIBROUS RAW MATERIALS

The paper industry continues to increase its use of waste paper as a paper-making fiber. API's Capacity Survey indicated that paper, paperboard and building paper and board mills consumed 21,791,000 tons of waste paper in 1990, equivalent to 27.2% of total paper and board production, compared to 25.8% in 1989 and 23.5% in 1980. API

board production, compared to 25.8% in 1989 and 23.5% in 1980. API estimates that another 750,000 tons of waste paper was used for such products as molded pulp, insulation and animal bedding. These totals, together with a record-high 6,505,000 tons of waste paper exported, less 123,000 tons imported, add to a collection total of 28,926,000 tons, equivalent to 33.4% of total paper and board new supply. This put the industry well on its way to the goal of collecting 40% of the total new supply by the end of 1995.

Consumption of wood pulp at paper and paperboard mills also increased in 1990, rising 1.3% to 61.5 million tons. API's Capacity Survey reports that paper and paperboard producers plan to increase their use of wood pulp at a 2% per year rate in the 1991-1993 period and their use of waste paper by more than 7% per year.

According to preliminary data, production of chemical paper grade market wood pulp in January 1991 was 5% ahead of its year-ago rate. Shipments showed an even larger gain when measured against the relatively low level reported for January 1990. The January 1991 shipments total, however, was 60,000 metric tons below production, resulting in a comparable rise in inventories. In spite of this, the 27 days of supply reported for the month-end January 1991 was 10% below the 30 days of supply reported one year earlier.

Export shipments continued to dominate the market, accounting for 62% of the chemical paper grade shipments total. Western Europe was the major export market, taking 44% of total exports; the Asian/African countries (excluding Japan) took 22%; Japan, 20%.

SALES AND EARNINGS

Data reported in the press on sales and earnings of 26 paper and allied products companies indicate that fourth quarter 1990 sales held up well, climbing 3.7% above their year ago total. The 1990 total of $71 billion, equivalent to about 60% of the industry total, was 4.5% above 1989.

Net profit after taxes reported by these companies, however, continued the downward slide evident in the earlier quarters. The fourth quarter 1990 total was 52% below that of the fourth quarter of 1989, bringing the net profit-to-sales ratio to 3.1%, compared to 6.8% in the year-earlier quarter. Total 1990 after-tax profits were 34% below those of 1989; the profits-to-sales ratio 4.7%.

Similar data for three forest products companies with significant paper industry capacity showed trends similar to those reported for paper companies. Their year-to-year decline in earnings were somewhat steeper, however, reflecting weaknesses in the housing and wood products markets (see table on bottom of page 10).

HISTORICAL PROFILE OF THE PAPER INDUSTRY

The table on page 12 provides historical perspective on key paper industry data that regularly appear on the Industry Data Sheet insert. These years (1980 - 1990), reflect the growth of the industry through two distinct business cycles.

The Data Sheet is structured to summarize prevailing industry and market trends. The first two tiers present input/output data reviewing new supply components (production plus imports less exports) and raw materials consumption.

Given the sheer size of the paper industry and the widespread use of its products, it is no surprise that the new supply of paper, paperboard and converted products tends to track the growth of the total economy. From 1980 to 1990, real GNP rose by 30.4%, for an average annual gain of 2.7%. At the same time, new supply of paper, paperboard and converted products rose 32.1% (2.8% per year), while paper and paperboard production increased 28.7%, or 2.6% a year. The sharper rise in new supply relative to production reflected a 56.6% increase in imports, only partially offset by the 31.8% gain in exports.

The Data Sheet also chronicles the paper industry's financial health. Particularly notable is the high levels of sales and earnings in the 1988-1989 period. As sales leveled out in 1990, earnings declined, bringing the ratio of profit to sales near the low end of their long-term relationship. This did not affect capital commitments in 1990, and expenditures on new plant and equipment continued to rise. Some reduction, however, is expected in 1991. Significantly, the decline in employment at paper and paperboard mills and the accompanying increase in productivity competitively positioned the U.S. paper industry in the world economy.

The lower tiers of this table present data on the major markets for paper and paperboard. The paper and paperboard demand indexes, for example, relate trends in paper and paperboard new supply (a proxy for consumption) to market activity. The market data are combined into indexes which indicate the movement of total demand for each of these product groups separately.

Other important market data include consumption of newsprint by publishers as reported by the American Newspaper Association: magazine advertising pages as reported by the Publishers Information Bureau; and fibre box shipments and inventories as reported by the Fibre Box Association. Each of these series relate to specific sectors of paper and paperboard demand.

The table also presents broad economic information, such as trends in retail and wholesale trade, total industrial production and real disposable income. Finally, it shows per capita consumption of paper and paperboard to summarize their use in terms of people.

INDUSTRY DATA	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
PAPER AND PAPERBOARD — Tons (000)											
Total Production (API).....: excluding :.....	61,042	62,109	59,290	64,949	68,449	66,988	70,905	74,368	76,455	76,722	78,588
Imports (Including Products).: wet :.....	8,304	7,941	7,603	8,509	10,576	11,105	11,597	12,528	12,788	12,910	13,006
Exports (including Products).: machine :.....	5,148	4,561	4,187	4,502	4,310	4,003	4,593	5,197	5,559	6,263	6,787
Apparent Consumption.....: grades :.....	64,198	65,489	62,706	68,956	74,715	74,090	77,910	81,700	83,684	83,369	84,787
Paper Production % Tonnage Capacity.....	92.2	91.7	87.2	91.9	92.8	90.6	93.5	94.5	95.4	93.0	93.4
Paperboard Production % Tonnage Capacity.....	91.7	90.5	82.0	90.7	94.5	89.7	93.6	95.7	94.5	93.8	93.6
PAPER, PAPERBOARD AND PRODUCTS											
IMPORTS.....:Including Construction and :.....	8,780	8,339	8,024	8,986	11,075	11,522	11,936	12,837	13,110	13,100	13,147
EXPORTS.....: WMB Grades (excl. HPB) :.....	5,214	4,641	4,246	4,569	4,387	4,071	4,687	5,304	5,691	6,300	6,796
MARKET WOOD PULP PRODUCTION – Tons (000).....	6,466	6,202	5,733	6,527	6,899	6,801	7,573	8,112	8,565	8,664	8,823
TOTAL WOOD PULP PRODUCTION – Tons (000).....f.....	50,734	52,042	49,334	52,453	55,470	54,147	57,002	59,550	61,161	61,998	63,275
WOOD PULP IMPORTS – Tons (000).....	4,051	4,087	3,656	4,093	4,490	4,466	4,582	4,850	5,038	5,005	4,893
WOOD PULP EXPORTS – Tons (000).....	3,806	3,678	3,395	3,644	3,954	3,795	4,458	4,889	5,528	6,231	5,905
RAW MATERIALS CONSUMPTION – Tons (000)											
PAPER AND BOARD MILLS...: excluding :.....											
Wood Pulp.....:consumption for:.....	50,120	50,497	48,061	51,422	54,994	53,682	57,222	58,675	60,294	60,727	61,834
Waste Paper.....:construction & :.....	13,551	13,875	13,564	14,696	15,926	15,734	17,268	17,993	19,021	19,490	21,039
TOTAL.....: WMB grades :.....	63,671	64,372	61,625	66,118	70,920	69,416	74,490	76,668	79,315	80,217	82,873
PULPWOOD CONSUMPTION Cords(000)Am.Pulpwd.Asn.	79,703	81,178	76,257	85,442	87,646	85,744	91,434	93,946	95,497	98,414	99,194
EMPLOYMENT (000)											
Paper and Allied Products.....Total.....	684.6	680.5	655.4	653.9	674.0	671.3	667.7	674.9	689.9	697.1	698.5
Pulp, Paper and Board Mills.....Total.....A.....	260.2	259.3	251.9	249.0	250.3	245.9	242.1	240.4	247.2	229.6	229.3
AVG. HOURLY EARN'S OF PRODUCTION WORKERS ($)											
Paper and Allied Products.....	7.84	8.60	9.32	9.93	10.41	10.83	11.18	11.43	11.86	11.96	12.30
Pulp, Paper Mills.....A.....	9.22	10.14	10.97	11.81	12.55	13.26	13.75	14.11	14.31	14.73	15.20
Paperboard Mills.....	9.28	10.23	11.11	12.11	12.99	13.60	13.98	14.30	14.49	14.76	15.25
CAPITAL EXPENDITURES, PAPER & ALLIED PRODUCTS (Rept. by US Dept. of Com., Ann. Rates, Bill.$)*	6.52	6.11	5.60	5.92	7.21	8.59	8.77	9.01	10.92	15.58	16.84 Y
INDEX OF OUTPUT PER MAN–HOUR (1982=100).....											
:IN PULP, PAPER :....Production Workers.....	93.5	92.7	100.0	106.7	108.2	111.1	119.7	123.9	127.5	125.9	128.0
:AND BOARD MILLS:....All Employees.....	94.4	93.8	100.0	107.4	108.7	110.6	120.1	124.0	127.6	126.5	128.6
PAPER AND ALLIED PRODUCTS (Million $)											
Industry Shipments (Dept. of Commerce)*.....	72,865	80,248	79,866	84,635	94,781	93,333	97,886	110,317	124,173	130,501	131,080
Pulp, Paper and Paperboard*.....	31,791	35,112	33,990	36,101	41,365	39,119	41,040	47,080	55,227	57,700	56,356
Inventories (End of Period) – Total Industry*.....	7,812	8,613	9,059	9,346	10,211	10,020	10,369	11,242	12,065	12,571	12,980
Pulp, Paper and Paperboard*.....	2,937	3,231	3,518	3,451	3,828	3,829	3,745	3,907	4,325	4,980	5,305
PAPER AND ALLIED PRODUCTS COMPANIES (Million $)											
Sales (Corporations Only).....	56,250	62,699	60,293	65,006	71,891	71,465	74,844	95,576	107,221	113,573	114,987 #
Earnings (Corporations Only).....	2,800	3,110	1,460	2,327	3,015	2,880	3,280	5,520	8,081	7,047	5,687 #
Depreciation (Corporations Only).....	2,026	2,267	2,379	2,607	2,798	3,099	3,389	4,279	4,825	5,010	5,424 #
Net Worth (Corporations Only).....	24,396	26,558	26,705	27,219	28,160	29,694	31,221	39,217	42,940	45,642	46,185 #
PRICE INDEXES (Bureau of Labor Stats)(1982=100)											
Pulp, Paper & Products, ex. Building Grades.....	91.7	99.1	100.0	99.3	107.3	106.9	107.6	114.3	124.8	132.4	133.0
Wood Pulp.....	100.3	104.8	100.0	91.5	104.8	91.4	94.7	111.5	136.7	157.4	152.2
Waste Paper.....	172.2	145.0	100.0	N.A.	198.2	122.9	142.6	181.4	183.6	157.1	138.3
Paper.....	89.7	97.7	100.0	98.5	105.8	106.0	107.0	111.5	123.2	129.6	128.8
Paperboard.....	92.0	101.2	100.0	98.4	110.4	107.7	106.6	118.1	133.2	140.1	135.8
PAPER DEMAND (INDEX 1967=100)											
Total Paper Production *.....	81.6	83.7	81.9	88.8	93.3	92.3	96.3	100.0	103.9	103.6	106.7
Paper New Supply *.....	78.6	80.2	76.8	84.4	91.5	90.7	95.4	100.0	102.4	102.0	103.8
Demand Indicators – (Weighted Average) *.....	77.3	78.7	80.5	83.7	88.2	90.8	94.0	99.9	103.9	107.8	110.1
Production of Nondurable Goods *...(21.2%).....	89.1	89.6	89.7	91.9	93.4	94.4	97.6	100.0	103.7	106.4	107.7
Disposable Income .....*.(23.9%).....	82.7	84.0	84.5	87.1	92.3	95.0	98.5	99.8	104.6	107.2	108.1
Total Printing and Publishing *...(54.9%).....	70.3	72.1	75.2	79.0	84.5	87.6	90.7	100.0	103.6	106.6	111.9
PAPERBOARD DEMAND (INDEXED: 1967=100)											
Total Paperboard Production *.....	82.6	83.4	77.6	85.9	90.8	87.9	94.4	100.0	101.8	102.7	104.6
Production for Domestic Use	80.3	83.6	77.3	84.3	91.0	89.1	94.0	100.0	102.2	103.0	104.6
Demand Indicators – (Weighted Average) *.....	86.6	87.6	84.3	87.9	93.8	94.7	96.4	100.0	104.7	107.2	107.9
Production of Consumer Goods *...(62.06%).....	85.3	85.8	84.5	88.8	92.8	93.7	96.8	100.0	104.0	106.6	107.3
Production of Equipment *...(5.75%).....	74.6	78.2	77.0	76.8	89.2	94.8	94.5	100.0	107.6	112.3	115.5
Production of Materials *...(32.19%).....	91.3	92.8	85.1	88.3	96.6	96.6	95.9	100.0	105.6	107.4	107.7
MARKET DATA											
Consumption by Publishers – Tons (000).....	11,120	11,204	11,129	11,606	12,510	12,684	13,088	13,562	13,497	13,493	13,391
Newspaper Pub. and Printing Empl. Total(000).....	420	420	419	426	440	451	461	470	474	473	478
Magazine Advertising Pages (PIB, Inc.).....	118,372	123,182	121,617	141,126	157,796	155,545	154,317	164,771	172,580	181,560	172,428
Wholesalers Sales and Inventories (Million $)											
Total Paper & Pap. Prdcts.,ex Wallpaper..Sales.....	22,608	25,072	25,937	27,755	32,591	33,664	35,809	40,818	46,554	50,740	52,352
Inventories (End of Period).....	1,999	2,271	2,211	2,654	2,906	3,191	3,360	3,454	3,959	4,137	4,269
FIBRE BOX DATA (Fibre Box Association)											
Fibre Box Shipments (Million square feet).....	241,377	246,152	235,185	252,539	267,547	267,453	283,921	297,828	308,509	312,205	315,775
Container'bd Inventory at Mill & Plant(000Tons).....	1,984	2,729	2,584	2,437	2,882	2,549	2,238	2,486	2,553	2,589	2,765
RETAIL TRADE (Billion $)											
Total Retail Sales *.....	957	1,039	1,069	1,171	1,288	1,376	1,450	1,542	1,650	1,734	1,799
Nondurable Goods Stores Sales *.....	658	714	733	779	833	877	909	965	995	1,062	1,152
GENERAL ECONOMIC DATA											
TOTAL INDUSTRIAL PRODUCTION (INDEX 1987 = 100)*.	84.1	85.7	81.9	84.9	92.8	94.4	95.3	100.0	105.4	108.1	109.2
PRODUCER PRICES (ALL COMMODITIES) (1982=100).....	89.8	96.0	100.0	101.3	103.7	103.2	100.2	102.8	106.9	112.2	116.3
CONSUMER PRICES (ALL ITEMS) (INDEX 1982–4=100)...	82.4	90.9	96.5	99.6	103.9	107.6	109.6	113.6	118.3	124.0	130.7
GROSS NATIONAL PRODUCT – ANNUAL RATE (Billion$)											
G.N.P. or Expenditure – Current $.....	2,732	3,053	3,166	3,406	3,772	4,015	4,232	4,516	4,874	5,201	5,484
G.N.P. or Expenditure – 1982 $.....	3,187	3,249	3,166	3,279	3,501	3,619	3,718	3,845	4,017	4,118	4,156
PAPER AND PAPERBOARD CONSUMPTION – POUNDS PER CAPITA.....	564	569	539	587	630	619	645	670	680	670	679

f - Wood Pulp Production exc del., expls & scr. A - Estimated by API Y - Full year estimated by Dept. of Commerce # - Annual rate through 3rd quarter, 1990 * Seasonally Adjusted

MONTHLY STATISTICAL SUMMARY INSERT
VOL. 69, NO. 2
FEBRUARY, 1991

PRODUCTION (000 TONS)

PAPER GRADES	(P) JAN 1991	(R) DEC 1990	JAN 1990	FIRST 1 MONTH 1991	FIRST 1 MONTH 1990	% CHANGE YR TO DATE 1991/1990
Newsprint	580	576	553	580	553	4.7
Printing & Writing	1,883	1,763	1,946	1,883	1,946	-3.2
Uncoated Groundwood (s)	144	147	156	144	156	-7.7
Coated Groundwood (s)	348	327	360	348	360	-3.3
Coated Free Sheet (s)	281	237	289	281	289	-2.7
Total Coated Paper (s)	629	564	649	629	649	-3.0
Uncoated Free Sheet Paper (s)	981	930	1,000	981	1,000	-1.9
Thin Paper (s)	20	14	24	20	24	-19.2
Cotton Fiber Paper (s)	13	11	14	13	14	-5.7
Bleached Bristols (s)	97	96	104	97	104	-6.0
Tissue Paper	485	484	474	485	474	2.5
Total Pkg & Other Paper	394	357	400	394	400	-1.4
Unbl. Kraft Paper (s)	202	173	215	202	215	-6.1
Bl. Kraft Paper (s)	35	37	43	35	43	-18.1
Specialty Pkg. Paper	50	51	46	50	46	9.0
Special Industrial Paper (s)	107	97	96	107	96	11.6
TOTAL PAPER	3,342	3,181	3,372	3,342	3,372	-0.9
PAPERBOARD GRADES						
Unbleached Kraft Paperboard	1,823	1,795	1,687	1,822	1,687	8.0
Unbleached Kraft Linerboard	1,708	1,677	1,586	1,708	1,586	7.7
Other Unbl. Kraft Paperboard	115	118	101	114	101	12.5
Semichemical Paperboard	497	494	490	497	490	1.5
Bleached Paperboard	393	369	384	393	384	2.3
Recycled Paperboard	750	663	752	750	752	-0.4
TOTAL PAPERBOARD	3,462	3,321	3,313	3,462	3,313	4.5
TOTAL PAPER AND PAPERBOARD	6,804	6,502	6,685	6,804	6,685	1.8

WOOD PULP (ALL GRADES)	DEC 1990	NOV 1990	DEC 1989	FULL YEAR 1990	FULL YEAR 1989	% CHANGE YR TO DATE 1990/1989
Dissolving & Special Alpha	123	71	117	1,293	1,425	-9.3
Bleached Sulfite)	132	121	122	1,561	1,563	-0.2
Unbleached Sulfite)						
Bleached & Semi-Bl. Sulfate	2,360	2,236	2,108	27,562	26,949	2.3
Unbleached Sulfate	1,900	1,808	1,765	22,188	21,669	2.4
Semichemical	359	347	357	4,219	4,363	-3.3
Groundwood & Thermomechanical	554	543	523	6,452	6,029	7.0
TOTAL PULP DIVISION DATA	5,428	5,125	4,991	63,275	61,998	2.1

(s) - Shipments
P - Preliminary
R - Revised

AMERICAN PAPER INSTITUTE, INC.
260 Madison Avenue
New York, New York 10016

INDUSTRY DATA February 28, 1991	1989	1990	1990	1990 R	1991 P	AN RATE Y-T-D 91	% CHY SAME PD 90
PAPER AND PAPERBOARD — Tons (000)			NOVEMBER	DECEMBER	JANUARY		
Total Production (API): excluding :	76,722	78,568	6,528	6,502	6,904	81,851	1.8
Total Seasonally Adjusted: construction :			6,632	6,589	6,607	79,281	1.9
Imports (including Products): and wet :E	12,910	13,008	1,070	988	1,120	13,440	0.6
Exports (including Products): machine :E	6,263	6,787	646	523	585	7,140	2.4
Apparent Consumption: grades :	83,369	84,787	7,155	7,054	7,132	85,581	1.5
Paper Production % Tonnage Capacity	93.0	93.4	93.9	88.1	91.4	91.4	-
Paperboard Production % Tonnage Capacity	93.8	93.6	92.3	92.1	96.3	95.3	-
PAPER, PAPERBOARD AND PRODUCTS			OCTOBER	NOVEMBER	DECEMBER		
Imports:Including Construction and :	13,100	13,147	1,166	1,081	984	N.M.	N.M.
Exports: WMB Grades (excl. HPB) :	6,300	6,796	576	547	524	N.M.	N.M.
MARKET WOOD PULP PRODUCTION – Tons (000)	8,864	8,823	728	680	735	N.M.	N.M.
TOTAL WOOD PULP PRODUCTION – Tons (000)	61,966 I	63,275 I	5,442	5,125	5,428	N.M.	N.M.
WOOD PULP IMPORTS – TONS (000)	5,005	4,893	445	390	329	N.M.	N.M.
WOOD PULP EXPORTS – TONS (000)	6,231	5,905	491	436	477	N.M.	N.M.
RAW MATERIALS CONSUMPTION – Tons (000)							
PAPER AND BOARD MILLS: excluding :			OCTOBER	NOVEMBER	DECEMBER		
Wood Pulp: consumption for :	60,727	61,834	5,260	4,933	4,945	N.M.	N.M.
Waste Paper: construction & :	19,490	21,039	1,726	1,636	1,554	N.M.	N.M.
TOTAL: WMB grades :	80,217	82,873	6,987	6,569	6,499	N.M.	N.M.
PULPWOOD CONSUMPTION Cords (000) Amer. Pulpwd. Asen	98,414	99,109	8,517	8,120	8,012	N.M.	N.M.
EMPLOYMENT (000)			NOVEMBER	DECEMBER	JANUARY		
Paper and Allied Products.....Total	697.1	698.5	696.3	695.7	690.4	690.4	-0.5
Pulp, Paper and Board Mills.....Total.....A	229.6	229.3	227.2	227.8	227.6	227.6	-0.7
AVERAGE HOURLY EARNINGS OF PRODUCTION WORKERS ($)			NOVEMBER	DECEMBER	JANUARY		
Paper and Allied Products	11.96	12.30	12.53	12.53	12.51	12.51	3.3
Pulp, Paper Mills.....A	14.73	15.20	15.58	15.41	15.31	15.31	3.0
Paperboard Mills.....E	14.76	15.25	15.75	15.69	15.57	15.57	3.9
CAPITAL EXPENDITURES, PAPER & ALLIED PRODUCTS			1990 Q2	1990 Q3	1990 Q4		
(Rept. by US Dept. of Com., Ann. Rates, Bill.$)*	15.58	16.84 Y	18.59	16.74	14.46	N.M.	N.M.
INDEX OF OUTPUT PER MAN-HOUR (1982=100)			NOVEMBER	DECEMBER	JANUARY		
:IN PULP, PAPER :...Production Workers	125.9 RS	128.0	129.7	130.5	130.5	130.5	0.8
:AND BOARD MILLS:...All Employees	126.6 RS	128.6	130.8	131.7	131.7	131.7	1.4
PAPER AND ALLIED PRODUCTS (Million $)			NOVEMBER	DECEMBER	JANUARY		
Industry Shipments (Dept. of Commerce)*	130,501	131,080	10,982	10,882	10,821	129,252	-1.5
Pulp, Paper and Paperboard*	57,700	56,356	4,727	4,808	4,507	54,084	-1.0
Inventories (End of Period) – Total Industry*	12,571	12,980	12,787	12,980	13,088	13,088	2.7
Pulp, Paper and Paperboard*	4,980	5,305	5,233	5,305	5,292	5,292	5.9
PAPER AND ALLIED PRODUCTS COMPANIES (Million $)			1990 Q1	1990 Q2	1990 Q3		
Sales (Corporations Only)	113,573	114,987 #	28,534	28,944	28,982	N.M.	N.M.
Earnings (Corporations Only)	7,047	5,087 #	1,389	1,830	1,246	N.M.	N.M.
Depreciation (Corporations Only)	5,010	5,434 #	1,347	1,341	1,380	N.M.	N.M.
Net Worth (Corporations Only)	45,842	46,185 #	48,519	45,597	46,185	N.M.	N.M.
PRICE INDEXES (Bureau of Labor Stats)1982=100			NOVEMBER	DECEMBER	JANUARY		
Pulp, Paper & Products, ex. Building Grades	132.4	133.0	133.0	132.9	132.4	132.4	-0.7
Wood Pulp	157.4	152.2	145.7	144.7	133.5	133.5	-16.5
Waste Paper	157.1	138.3	129.0	131.4	131.8	131.8	-13.1
Paper	129.6	128.8	130.2	129.9	130.4	130.4	2.0
Paperboard	140.1	135.8	135.0	133.9	132.7	132.7	-4.7
PAPER DEMAND (INDEXED: 1987=100)			NOVEMBER	DECEMBER	JANUARY		
Total Paper Production *	103.6	106.7	107.5	103.8	105.8	105.8	-0.9
Paper New Supply *	102.0	103.8	104.5	100.2	103.5	103.5	-2.1
Demand Indicators – (Weighted Average) *	107.8	110.1	110.2	110.7	110.4	110.4	0.8
Production of Nondurable Goods.....*....(21.2%)	106.4	107.7	107.7	107.4	106.9	106.9	-0.8
Disposable Income.....*....(23.9%)	107.2	108.1	107.1	107.7	108.6	108.6	1.5
Total Printing and Publishing.....*....(54.9%)	108.6	111.9	112.5	113.3	113.3	113.3	2.3
PAPERBOARD DEMAND (INDEXED: 1987=100)			NOVEMBER	DECEMBER	JANUARY		
Total Paperboard Production *	102.7	104.6	106.5	106.8	107.4	107.4	4.5
Production for Domestic Use	103.0	104.6	107.6	106.0	105.9	105.9	4.6
Demand Indicators – (Weighted Average) *	107.2	107.9	107.0	105.9	105.7	105.7	-0.7
Production of Consumer Goods.....*....(62.08%)	106.6	107.3	106.5	105.8	105.7	105.7	-0.9
Production of Equipment.....*....(5.75%)	112.3	115.5	114.9	113.3	113.0	113.0	1.1
Production of Materials.....*....(32.19%)	107.4	107.7	106.6	104.9	104.4	104.4	-1.7
MARKET DATA			OCTOBER	NOVEMBER	DECEMBER		
Consumption by Publishers – Tons (000)	13,493	13,391	1,153	1,138	1,133	N.M.	N.M.
Newspaper Pub. and Printing Empl. Total(000)	473	478	479	478	477	N.M.	N.M.
Magazine Advertising Pages (PIB, Inc.)	181,580	172,428	17,744	16,917	15,202	N.M.	N.M.
Wholesalers Sales and Inventories ($-Million $)			OCTOBER	NOVEMBER	DECEMBER		
Total Paper & Pap. Prdcts.,ex Wallpaper..Sales	50,740	52,352	4,880	4,357	3,982	N.M.	N.M.
Inventories (End of Period)	4,137	4,289	4,395	4,276	4,289	N.M.	N.M.
FIBRE BOX DATA (Fibre Box Association)			NOVEMBER	DECEMBER	JANUARY		
Fibre Box Shipments (Million square feet)	312,205	315,775	24,955	21,412	27,227	326,734	-1.4
Container'bd Inventory at Mill & Plant (000 Tons)	2,580	2,785	2,535	2,785	3,049	3,049	13.6
RETAIL TRADE ($Billion $)							
Total Retail Sales *	1,734	1,790	151.7	149.5	148.2	1,778	-1.1
Nondurable Goods Stores Sales *	1,062	1,152	96.3	97.9	97.9	1,175	4.6
GENERAL ECONOMIC DATA			NOVEMBER	DECEMBER	JANUARY		
TOTAL INDUSTRIAL PRODUCTION (INDEX 1987 = 100)*	108.1	108.2	108.2	107.0	106.5	106.5	-0.9
PRODUCER PRICES (ALL COMMODITIES) (INDEX 1982=100)	112.2	116.3	120.1	118.6	118.9	118.9	3.5
CONSUMER PRICES (ALL ITEMS–URBAN CON.) (1982–4=100)	124.0	130.7	133.8	133.8	134.6	134.6	5.7
GROSS NATIONAL PRODUCT – ANNUAL RATE ($Billion$)			1990 Q2	1990 Q3	1990 Q4		
G.N.P. or Expenditure – Current $	5,201	5,464	5,443	5,515	5,521	N.M.	N.M.
G.N.P. or Expenditure – 1982 $	4,118	4,156	4,155	4,170	4,160	N.M.	N.M.
PAPER AND PAPERBOARD CONSUMPTION – POUNDS PER CAPITA	570	579	N.M. – Not meaningful			580	

I – Wood Pulp Prod exc del., expio & scr. R – Revised RS – Revised series E – Last month estimated by API A – Est. by API Y – Full year est. by Dept. of Commerce * Seasonally Adjusted # 3-qtr. annual rate